To: Hoppe, Michael[Hoppe.Michael@epa.gov]

Cc: Gary.Foster@CH2M.com[Gary.Foster@CH2M.com];

George. Hicks @CH2M.com[George. Hicks @CH2M.com];

James.Brinkman@CH2M.com[James.Brinkman@CH2M.com];

Mike.Jury@CH2M.com[Mike.Jury@CH2M.com]; Willard Potter[otto@demaximis.com]; Robert

Law[rlaw@demaximis.com] From: Stan Kaczmarek

Sent: Tue 10/22/2013 6:31:48 PM

Subject: Near-Shore Shear Stress from Storm Flows Pages from 20130731 RM 109 Final Design Figures.pdf

Mike,

Attached are pages extracted from the Final Design Report showing water velocities and shear stresses associated with peak storm flows. Please note that where there are rock outcroppings that CPG proposes to fill with the sand and AquaGate, the shear stresses are lower than they are further away from shore, and are less than what Type A and Type B armor stone are designed to withstand. Please call if you have any other questions.

Stan

Stan Kaczmarek, PE de maximis, inc. 186 Center Street, Suite 290 Clinton, NJ 08809 (O) (908) 735-9315 (C) (973) 978-9621